

Moving Scaffolding System (MSS)

Thanh Tri Bridge Project
Package 1



OBAYASHI & SUMITOMO Joint Venture

ERECTION & ASSEMBLY PROCEDURES

- Temporary Support
- Main Girder Erection
- Bracket Installation
- Transverse Beams Erection
- External Formworks Erection
- Rebars & Ducting Installation
- Internal Formworks/Topslab Rebar Installation
- Placing Concrete
- Pre-stressing & grouting Works
- MSS Launching (Transverse & Longitudinal)

Temporary Support



Using Bent
Support on
top of
concrete
base

Temporary Support



Main Girder Erection



Main Girder Erection



Main Girder Erection



Main Girder Erection



Main Girder Erection



Main Girder Erection



Bracket Installation



- Supporting bracket was pre-assembled on the ground before erecting

Bracket Installation



Bracket Installation



Launching Wagon Installation



Launching Wagon Installation



Continue Main Girder Installation



Continue Main Girder Erection



Transverse Beam Erection



Transverse Beam Erection



Transverse Beam Erection



Screw Jack Erection



Screw Jack Erection



Bottom Formworks Installation



Bottom Formworks Installation



Web & Wing Formworks Installation



Web & Wing Formworks Installation



Web & Wing Formworks Installation



uStep by step erection

u Now the MSS is raised by the Main Jacks approx. 200mm into concreting position.



u During lifting and lowering, the Mechanical Locking Ring is moved at steps of approx. 30 - 50mm. This as a safety pre-caution in case of any hydraulic failure

Web & Wing Formworks Installation



Web & Wing Formworks Installation



Nose (Front & Rear) Installation



Nose (Front & Rear) Installation



Formworks around Pier



Rebar Installation



Rebar & Ducting Installation



Internal Formworks Installation



Top slab Rebar Installation



Top slab Rebar & Ducting Works



Placing Concrete



Placing Concrete



Placing Concrete



Placing Concrete



Placing Concrete



Placing Concrete



Pre-stressing Works (Transverse)



Pre-stressing Works (Longitudinal)



Grouting Works



MSS Launching (Transverse Direction)



■ Folding the Bottom middle panel

MSS Launching (Transverse Direction)



**Folding the
Bottom
middle panel**

MSS Launching (Transverse Direction)



MSS Launching (Transverse Direction)



MSS Launching (Transverse Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Longitudinal Direction)



MSS Launching (Finished)



Ready for
second span

MSS Launching (Finished)



Second span starts